

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

1 – 24. (Canceled)

25. (Currently amended) An ~~energy converter~~ electric generator converting pre-equilibrium chemical reaction product energy into electrical potential, comprising:
a junction of a semiconductor and a conductor material,
a stabilizing interlayer conductor formed on a the conductor material that physically isolates chemical reactants from the junction;
a conducting surface formed on the stabilizing interlayer conductor, the conducting surface formed from one or more nanostructures in contact with or near a region for containing vibrationally energized species chemical reaction products;
a tailoring material on which the conductor material is formed arranged to prevent junction tearing and to form a uniform diode; and
a semiconductor on which the tailoring material is formed,
where the conductor material, the stabilizing interlayer conductor, the conducting surface, and the tailoring material are ballistic charge carrier conductors.

26-29. (Canceled)

30. (Currently amended) The ~~energy converter~~ electric generator of claim 25, further including a substrate on which the semiconductor is formed ,wherein the substrate having a region in thermal contact with the flow of the chemical reactants.

31. (Currently amended) The ~~energy converter~~ electric generator of claim 30, wherein the substrate includes at least a heat conducting substrate in thermal contact with the region in thermal contact with the flow of the chemical reactants.

32-35. (Canceled)